| Ind | lex of | Claims |  |
|-----|--------|--------|--|
|     |        |        |  |

| Appl | licatio | n/Coi | ntrol | No. |
|------|---------|-------|-------|-----|
|------|---------|-------|-------|-----|

10/809,873

Examiner

Navneet K. Ahluwalia

Applicant(s)/Patent under Reexamination

THEILMANN ET AL.

Art Unit

2166

| √ | Rejected |
|---|----------|
| = | Allowed  |

(Through numeral)
Cancelled

Restricted

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|---|--------------|
| - | Interference |

| A | Appeal   |
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| Cla             | im       | Date           |  |              | Claim Date |            |           |          |          |          |          |          |  |          | ٦        | Claim Date |          |          |          |          |   |          |          |          |          |          |          |          |          |          |          |           |
|-----------------|----------|----------------|--|--------------|------------|------------|-----------|----------|----------|----------|----------|----------|--|----------|----------|------------|----------|----------|----------|----------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <u></u>         |          |                | П  | Т            | Ť          | <u>-:-</u> |           | Т        |          | -        |          |          |  | T        | $\neg$   | Ť          | Ť        | T        | Т        |          | 1 |          |          |          |          |          | Ī        | Ī        | П        | Ŧ        | Т        | ᅱ         |
| Final           | Original | 9/15/06        |  |              |            |            |           |          | :        |          | Final    | Original |  |          |          | į          |          |          |          |          |   | Final    | Original |          |          |          |          |          |          |          |          |           |
| _               | 1        | 1              | $\vdash$   | +            | +          | +          | ┥         |          |          | $\dashv$ |          | 51       |  |          | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | +        | +        | - | $\vdash$ | 101      | -        |          |          | -        | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$  |
| $\vdash$        | 2        | i              |  | +            | +          | $\dashv$   | $\dashv$  | -        | +        | $\dashv$ |          | 52       | $\dashv$   | 一        | $\dashv$ | -          | _        | $\dashv$ | $\dashv$ | 十        | ┨ | -        | 102      |          |          |          |          |          | 一        | -        | $\dashv$ | $\neg$    |
|                 | 3        | Ì              | -  | +            | +          | +          | -         | $\dashv$ | +        | $\dashv$ |          | 53       | $\dashv$   | $\dashv$ | -        | -          | $\dashv$ | $\dashv$ | $\dashv$ | +-       | ┥ | $\vdash$ | 103      |          |          | -        |          |          | 一        | _        | $\dashv$ | ᅱ         |
|                 | 4        | Ť              | $\vdash \vdash$                                  | +            | +          | $\dashv$   | -         | $\dashv$ | $\dashv$ | -        | $\vdash$ | 54       |  | $\dashv$ | $\dashv$ | 十          | $\dashv$ | +        | +        | +        | ┨ |          | 104      | -        | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | ᅥ         |
|                 | 5        | ₹              |  | +            | +          | $\dashv$   | $\dashv$  | $\dashv$ | $\dashv$ | -        |          | 55       | $\dashv$   | -        | +        | +          | $\dashv$ | +        | +        | ┪        | ┨ |          | 105      |          |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | ᅥ         |
| -               | 6        | Ť              | ├─├  | +-           | ┰          | $\dashv$   | -+        | $\dashv$ | -        | $\dashv$ | -        | 56       | Н  | $\dashv$ | -        |            | $\dashv$ | +        | +        | +        | ┪ | -        | 106      |          | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | ㅓ         |
|                 | 7        | 7              | -  | ╫            | +          | $\dashv$   | -         |          | -        | -        | -        | 57       | Н  | $\dashv$ | -        | -+         | $\dashv$ | +        | +        | +        | - | <u> </u> | 107      | Н        | $\vdash$ | $\dashv$ | -        | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$  |
|                 | 8        | 7              | $\vdash$   | ┿            | ╅          | -          |           | -        | -        | -        |          | 58       | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | +        | +        | - | <b>-</b> | 108      | -        |          | $\dashv$ | -        |          |          | $\dashv$ | $\dashv$ | ᅱ         |
|                 | 9        | 7              | ┝╌┼╴   | ┿            | +          | 十          | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | -        | 59       | $\vdash$   | $\dashv$ | -        | -          | $\dashv$ | +        | +        | +        | - | -        | 109      |          | $\dashv$ | $\neg$   |          |          | $\dashv$ | $\dashv$ | $\dashv$ | ᅥ         |
|                 | 10       | 1              | <del></del>                                      | +            | ╅          | $\dashv$   | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | 1        | 60       | Н  | $\dashv$ |          | -          | $\dashv$ | +        | ╅        | +        | - |          | 110      |          | $\dashv$ | $\neg$   | -        | $\neg$   | $\dashv$ | $\dashv$ | 十        | $\dashv$  |
| _               | 11       | Ì              | $\vdash$   | +            | +          | $\dashv$   | -         | -        | $\dashv$ | -        |          | 61       | Н  | -        | $\dashv$ | ┪          | $\dashv$ | $\dashv$ | +        | +        | ┪ | $\vdash$ | 111      |          |          | _        |          | $\neg$   | _        | -        | 十        | $\dashv$  |
| $\vdash$        | 12       | Ì              | $\vdash$   | +            | +          | $\dashv$   | $\dashv$  | _        | ┪        | $\dashv$ | -        | 62       | $\vdash$   | -        | $\dashv$ | +          | -+       | $\dashv$ | +        | +        | 1 | $\vdash$ | 112      | $\vdash$ |          |          | Н        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
| <del> </del>    | 13       | 1              | $\vdash$   | +            | +          | -          | $\dashv$  |          | $\dashv$ | $\dashv$ | <b>—</b> | 63       | -  | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | +        | ┪ | -        | 113      |          | $\vdash$ | $\vdash$ | $\vdash$ |          |          | $\dashv$ | $\dashv$ | $\dashv$  |
|                 | 14       | Ť              | - -  | +            | +          | $\dashv$   | $\dashv$  | $\dashv$ | -        | $\dashv$ |          | 64       | $\vdash$   | $\dashv$ |          | -          | $\dashv$ | $\dashv$ | $\dashv$ | +        | 1 |          | 114      |          | $\vdash$ | $\dashv$ | $\vdash$ |          | $\neg$   |          | $\dashv$ | $\dashv$  |
|                 | 15       | Ť              | <del>                                     </del> | +            | +          | $\dashv$   | $\dashv$  | $\dashv$ | -        | $\dashv$ |          | 65       | H  | $\vdash$ | +        | $\dashv$   | $\dashv$ | +        | $\dashv$ | +        | 1 |          | 115      |          | $\vdash$ | $\dashv$ | М        |          | -        | $\dashv$ | $\dashv$ | ᅥ         |
|                 | 16       | 1              | - -  | +            | +          | $\dashv$   | $\dashv$  |          | -        | $\dashv$ |          | 66       | H  |          | $\dashv$ | 一          | +        | $\dashv$ | $\dashv$ | +        | 1 |          | 116      |          | $\vdash$ | $\vdash$ | Н        |          | $\dashv$ | $\dashv$ | $\dashv$ | ㅓ         |
| $\vdash \vdash$ | 17       | 7              | $\vdash$   | +            | +          |            | $\dashv$  | -        | $\dashv$ | $\dashv$ |          | 67       | Н  |          |          | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | 1 |          | 117      | М        | Н        |          | $\vdash$ |          | $\dashv$ | $\neg$   | $\dashv$ | $\dashv$  |
|                 | 18       | 1              | $\vdash$   | ╅            | +          | _          | _         | ᅥ        | -        | $\dashv$ |          | 68       | Н  |          |          | 7          | _        | $\dashv$ | $\dashv$ | +        | ┪ |          | 118      |          | П        |          |          |          | $\neg$   |          | ┪        | $\exists$ |
|                 | 19       | Ì              | $\vdash$   | +            | +          | +          |           | $\dashv$ | -        | $\dashv$ |          | 69       | Н  | -1       | -1       | +          | +        | +        | ╅        | -        | ┪ | -        | 119      | Н        | Н        |          |          |          |          |          | ┪        | $\neg$    |
| <del></del>     | 20       | 1              | +  | +            | $\dashv$   | $\dashv$   |           | -        |          | $\dashv$ | <b>—</b> | 70       |  | -        | -        | $\dashv$   | $\dashv$ | +        | $\dashv$ | ╅        | ┪ |          | 120      | $\vdash$ |          |          |          | $\Box$   |          |          | 一        | $\dashv$  |
|                 | 21       | 1              | $\vdash$   | +            | ╅          | -          | -         |          |          | $\dashv$ | -        | 71       | H  | _        | -        | 寸          | -        | +        | $\dashv$ | +        | 1 | -        | 121      | 1        | H        |          | _        |          |          | 一        | $\neg$   | $\neg$    |
|                 | 22       | 1              | +  | +            | $\dashv$   | $\dashv$   | -         | -        | -        | $\dashv$ |          | 72       |  | -        | $\dashv$ | $\dashv$   | 十        | +        | $\dashv$ | 十        | 1 | -        | 122      |          |          |          |          |          |          | $\neg$   | _        | $\dashv$  |
|                 | 23       | 1              | $\vdash$   | +            | $\dashv$   | $\dashv$   |           |          | _        | $\dashv$ | <u> </u> | 73       |  |          | _        | 7          | 7        | 十        | 7        | $\top$   | 1 |          | 123      |          |          |          |          |          |          |          | $\neg$   | $\neg$    |
| <u> </u>        | 24       | 1              | $\vdash$   | ╅            | +          | $\dashv$   | $\dashv$  | -        | ٦İ       | $\dashv$ |          | 74       | -  | $\vdash$ | $\neg$   | 7          | _        |          | +        | +        | ┪ | $\vdash$ | 124      | $\vdash$ |          |          | _        | П        |          | $\neg$   | 一        | $\neg$    |
| -               | 25       | Ť              |  | ╅            | +          | $\dashv$   |           |          | H        | $\dashv$ |          | 75       | $\vdash$   |          | $\dashv$ | $\dashv$   | -        | $\dashv$ | $\dashv$ | +        | 1 |          | 125      |          | _        |          |          | Н        |          | $\dashv$ | $\dashv$ | $\dashv$  |
|                 | 26       | 1              | <del>     </del>                                 | +            | $\dashv$   | $\dashv$   | $\dashv$  |          | $\dashv$ | -1       |          | 76       | <del>                                     </del> | $\vdash$ |          | _          | $\dashv$ | 7        | $\dashv$ |          | 1 |          | 126      | $\vdash$ |          |          |          | П        |          |          | 一        | $\neg$    |
| <u> </u>        | 27       | <del>l `</del> | <del>                                     </del> | +            | $\dashv$   | $\dashv$   |           |          | $\vdash$ | _        | -        | 77       | H  |          | $\neg$   | 寸          | 7        | $\dashv$ | _        | _        | 7 |          | 127      |          | П        |          | П        |          |          | $\neg$   | $\neg$   | $\neg$    |
|                 | 28       | -              |  | +            | +          | $\dashv$   | _         |          |          |          |          | 78       | -  | $\dashv$ | 一        | $\neg$     | 寸        | $\dashv$ | +        | _        | - |          | 128      |          |          |          |          | Н        |          | 一        | ヿ        | П         |
|                 | 29       | _              |  | +            | $\dashv$   | $\dashv$   |           |          | $\dashv$ | $\neg$   | -        | 79       | H  |          | $\neg$   | 一          | $\dashv$ | 7        | $\dashv$ | 十        | 7 | <b>-</b> | 129      |          | Н        |          |          |          |          |          | $\neg$   | $\Box$    |
|                 | 30       | $\vdash$       |  | ╅            | $\dashv$   | $\dashv$   | $\dashv$  |          |          | _        | -        | 80       | H  |          | $\neg$   | ヿ          | 7        | $\dashv$ | 十        | 十        | ╡ | <b> </b> | 130      |          |          | Г        |          |          |          | П        | $\neg$   | $\Box$    |
| _               | 31       | $\vdash$       | $\vdash$   | +            | ┪          | $\dashv$   | $\dashv$  |          | $\vdash$ | $\neg$   |          | 81       | -  | $\vdash$ | $\neg$   | ᅥ          | 7        | $\dashv$ | 十        | _        | 7 |          | 131      |          |          |          |          |          |          |          | $\neg$   | П         |
|                 | 32       | Н              |  | 十            | $\top$     | 7          |           |          |          | $\dashv$ |          | 82       | ┪  |          |          | 一          | $\neg$   | $\dashv$ | 寸        | 1        | 7 |          | 132      |          |          |          |          |          |          |          | ヿ        | П         |
|                 | 33       |                |  | ╁            | 十          | 寸          | $\neg$    |          | $\neg$   | $\dashv$ |          | 83       |  |          | T        | ┪          | _        | $\dashv$ | T        | _        |   |          | 133      | 一        |          |          | 一        |          |          | $\neg$   | コ        |           |
|                 | 34       |                | $\vdash$   | $^{\dagger}$ | $\dashv$   | $\dashv$   | $\dashv$  |          | $\vdash$ | $\dashv$ |          | 84       | П  | $\Box$   |          |            | $\neg$   | +        | $\dashv$ | 十        | ╗ |          | 134      | Г        | П        | $\Box$   | Г        | М        |          |          | $\neg$   | $\sqcap$  |
|                 | 35       | Т              |  | 十            | $\dagger$  | ┪          | $\dashv$  | H        | П        | $\dashv$ |          | 85       | Т  |          |          | $\dashv$   |          | $\dashv$ | $\dashv$ | $\top$   | ٦ |          | 135      | Г        |          |          | Г        |          |          |          | $\neg$   | $\Box$    |
|                 | 36       | $\vdash$       | $\vdash$   | $\dagger$    | $\dashv$   | 一          | $\neg$    |          | П        | $\dashv$ | h        | 86       | Т  | П        |          | $\dashv$   | _        | _        | $\dashv$ | $\top$   | 7 |          | 136      |          |          |          |          |          |          |          | $\neg$   | П         |
|                 | 37       | T              | $\vdash$   | $\dagger$    | 7          |            |           |          |          | $\dashv$ |          | 87       | Т  | П        |          | _          | _        | $\dashv$ |          | $\dashv$ | 1 |          | 137      |          |          |          | Г        |          |          | $\Box$   | $\neg$   | П         |
| $\vdash$        | 38       | Т              |  | $\dagger$    | $\dagger$  |            | $\dashv$  |          | $\dashv$ | $\dashv$ | i        | 88       |  |          |          | $\dashv$   | 1        |          | 一        | 十        | 7 |          | 138      | 1        | Г        |          |          | П        |          |          | $\neg$   |           |
|                 | 39       | Г              |  | T            | 7          | 一          |           |          |          | ヿ        |          | 89       | Г  |          |          | $\dashv$   | 寸        | ヿ        | 寸        | $\top$   | 7 |          | 139      | <u> </u> |          |          |          |          |          |          | $\neg$   |           |
|                 | 40       | Г              | $\sqcap$   | $\top$       | 7          |            |           |          |          |          |          | 90       | Π  | П        |          |            | ヿ        | $\neg$   |          | 十        | 7 |          | 140      |          |          |          |          |          |          |          |          | П         |
|                 | 41       | Г              |  | $\top$       | 7          |            | $\exists$ |          |          |          |          | 91       | Г  | П        |          | $\neg$     |          |          |          | $\top$   | ٦ |          | 141      |          |          |          |          |          |          |          |          |           |
|                 | 42       | Γ              | $\sqcap$   | $\dagger$    | T          |            |           |          | П        | $\neg$   |          | 92       |  | $\Box$   |          |            | 1        | 一        | $\neg$   | $\top$   | 7 |          | 142      |          |          |          |          |          |          |          |          |           |
|                 | 43       |                |  | $\top$       | T          | $\neg$     |           |          |          |          |          | 93       | П  | П        |          |            |          | $\neg$   | $\top$   | 丁        | 7 |          | 143      |          |          | Ĺ        |          |          |          |          |          |           |
|                 | 44       | Г              |  | $\top$       | T          | $\neg$     | $\Box$    |          | $\Box$   |          |          | 94       | T  | П        |          |            |          | ヿ        | $\neg$   |          |   |          | 144      |          |          |          |          |          |          |          |          |           |
|                 | 45       | Г              | $\sqcap$   | +            | 寸          | 寸          |           |          |          |          |          | 95       |  | П        |          |            | $\Box$   |          | $\Box$   | $\top$   |   |          | 145      |          |          |          |          |          |          |          |          |           |
|                 | 46       | Π              |  | $\top$       | T          |            |           |          | П        |          |          | 96       |  | П        |          |            | $\neg$   | $\neg$   | $\neg$   |          |   |          | 146      |          |          |          |          |          |          |          |          |           |
|                 | 47       | Π              |  | $\top$       | 7          | $\neg$     | $\neg$    |          |          |          |          | 97       |  | П        |          |            |          | $\neg$   | $\neg$   |          |   |          | 147      |          |          |          |          |          |          |          |          |           |
|                 | 48       |                |  | $\top$       | T          | $\neg$     |           |          | П        |          |          | 98       | Π  |          |          |            |          |          |          |          |   |          | 148      |          |          |          |          |          |          |          |          |           |
|                 | 49       | Π              |  | 1            | T          | $\neg$     |           |          |          |          |          | 99       |  |          |          |            |          | $\neg$   |          | T        |   |          | 149      |          |          |          |          |          |          |          |          |           |
|                 | 50       |                |  | 1            | Ī          |            |           |          |          |          |          | 100      |  |          |          |            |          | $\Box$   |          | $\prod$  |   |          | 150      |          |          |          |          |          |          |          |          |           |